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Attorney's Docket No. 5470-276

TECHNOLOGY CENTER R0700

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re: MacDonald et al.

Serial No.: 10/069,305

Filed: June 6, 2002

For: *Antibody Dependent Enhancement (ADE) of Alphavirus Infection*

Confirmation No.: 1963

Group Art Unit: 3761

Date: November 7, 2002

Commissioner for Patents

Washington, DC 20231

INFORMATION DISCLOSURE STATEMENT

Sir:

Attached is a form PTO-1449, together with a copy of the identified document(s). This Information Disclosure Statement is submitted in accordance with 37 C.F.R. § 1.97(b), within three months of the filing date of the above-referenced application or before the mailing of a first Office Action on the merits, whichever event occurs last. Accordingly, no fee is required. The Commissioner is authorized to charge any additional fee, or credit any refund, to our Deposit Account No. 50-0220.

Respectfully submitted,

Karen A. Magri

Registration No. 41,965



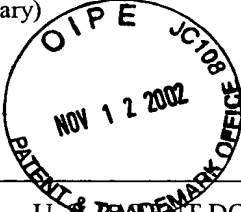
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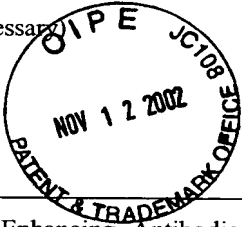
Clara R. Beard

FORM PTO-1449 U.S. Department of Commerce Patent and Trademark Office LIST OF DOCUMENTS CITED BY APPLICANT (Use several sheets if necessary)				Attorney Docket Number 5470-276 <div style="text-align: center; font-weight: bold; font-size: 1.2em;">RECEIVED</div> <div style="text-align: center; font-weight: bold;">NOV 14 2002</div>		Serial No. 10/069,305	
				Applicants: TECHNOLOGY CENTER R0700 MacDonald et al.		Filing Date: June 6, 2002	
				Group 3761			
U. S. PATENT DOCUMENTS							
Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate
	1.	5994126	11/30/99	Steinman et al.	435	325	
	2.	6004807	12/21/99	Banchereau et al.	435	325	
FOREIGN PATENT DOCUMENTS							
		Document Number	Date	Country	Class	Subclass	Translation Yes No
	3.	WO 9532733	12/07/95	WO	A61K	39/193	X
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)							
	4.	Barrett, A.D.T. & E.A. Gould "Antibody-mediated Early Death <i>in vivo</i> after Infection with Yellow Fever Virus." <u>Journal of General Virology</u> 67:2530-2542 (1986).					
	5.	Bowers, W.E. & E.M. Goodell "Dendritic cell ontogeny." <u>Research in Immunology</u> 140(9):880-883 (1989).					
	6.	Chanas, A.C., et al. "Monoclonal Antibodies to Sindbis Virus Glycoprotein EI can Neutralize, Enhance Infectivity, and Independently Inhibit Haemagglutination or Haemolysis." <u>Journal of General Virology</u> 58:37-46 (1982).					
	7.	Davis, Nancy L., et al. "Vaccination of Macaques against Pathogenic Simian Immunodeficiency Virus with Venezuelan Equine Encephalitis Virus Replicon Particles." <u>Journal of Virology</u> 74(1):371-378 (2000).					
	8.	Flynn, Daniel C., et al. "Antibody-Mediated Activation of Sindbis Virus." <u>Virology</u> 166:82-90 (1988).					
	9.	Füst, G. "Enhancing antibodies in HIV infection." <u>Parasitology Supplemental</u> 115:127-140 (1997).					
	10.	Guyre, Paul M. et al. "Increased potency of Fc-receptor-targeted antigens." <u>Cancer Immunology, Immunotherapy</u> 45:146-148 (1997).					
	11.	Hawkes, R.A. & K.J. Lafferty "The Enhancement of Virus Infectivity by Antibody." <u>Virology</u> 33:250-261 (1967).					
	12.	Heufler, Christine, et al. "Granulocyte/Macrophage Colony-Stimulating Factor and Interleukin 1 Mediate the Maturation of Murine Epidermal Langerhans Cells into Potent Immunostimulatory Dendritic Cells." <u>Journal of Experimental Medicine</u> 167(February):700-705 (1988).					

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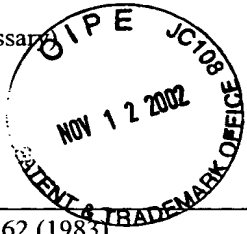
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FORM PTO-1449 U.S. Department of Commerce Patent and Trademark Office LIST OF DOCUMENTS CITED BY APPLICANT (Use several sheets if necessary)		Attorney Docket Number 5470-276 RECEIVED NOV 14 2002	Serial No. 10/069,305
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		Filing Date: June 6, 2002	Group 3761
13.	Inada, T. et al. "Enhancing Antibodies, Macrophages and Virulence in Mouse Cytomegalovirus Infection." <i>Journal of General Virology</i> 66:871-878 (1985).		
14.	Inada, T. & C.A. Mims "Association of Virulence of Murine Cytomegalovirus with Macrophage Susceptibility and with Virion-bound Non-neutralizing Antibody." <i>Journal of General Virology</i> 66:879-882 (1985).		
15.	MacDonald, Gene H. & Robert E. Johnston "Role of Dendritic Cell Targeting in Venezuelan Equine Encephalitis Virus Pathogenesis." <i>Journal of Virology</i> 74(2):914-922 (2000).		
16.	Mady, Brian J., et al. "Neuraminidase augments Fcγ receptor II-mediated antibody-dependent enhancement of dengue virus infection." <i>Journal of General Virology</i> 74:839-844 (1993).		
17.	McKenzie, Steven E. "Biological advances and clinical application of Fc receptors for IgG." <i>Current Opinion in Hematology</i> 1:45-52 (1994).		
18.	Morens, David M. & S.B. Halstead "Measurement of antibody-dependent infection enhancement of four dengue virus serotypes by monoclonal and polyclonal antibodies." <i>Journal of General Virology</i> 71:2909-2914 (1990).		
19.	Morens, David M. "Antibody-Dependent Enhancement of Infection and the Pathogenesis of Viral Disease." <i>Clinical Infectious Diseases</i> 19:500-512 (1994).		
20.	Ochiai, Hiroshi, et al. "Infection Enhancement of Influenza A NWS Virus in Primary Murine Macrophages by Anti-Hemagglutinin Monoclonal Antibody." <i>Journal of Medical Virology</i> 36:217-221 (1992).		
21.	Olsen, Christopher W. "A review of feline infection peritonitis virus: molecular biology, immunopathogenesis, clinical aspects, and vaccination." <i>Veterinary Microbiology</i>		
22.	Peiris, J.S.M. J.S. Porterfield "Antibody-dependent Enhancement of Plaque Formation on Cell Lines of Macrophage Origin-A Sensitive Assay for Antiviral Antibody." <i>Journal of General Virology</i> 57:119-125 (1981).		
23.	Peiris, J.S.M. et al. "Monoclonal anti-FC receptor IgG blocks antibody enhancement of viral replication in macrophages." <i>Nature</i> 289(January 15 th):189-191 (1981).		
24.	Porterfield, "Antibody-dependent Enhancement of Viral Infectivity," <i>Advances in Virus Research</i> 31: 335-354 (1986).		
25.	Nadler et al., "Monoclonal antibody identifies a new Ia-like (p29,34) polymorphic system linked to the HLA-D/DR region," <i>Nature</i> 290: 591 (1981).		
26.	Pushko et al., "Replicon-Helper Systems from Attenuated Venezuelan equine Encephalitis Virus: Expression of Heterologous Genes <i>in Vitro</i> and Immunization against Heterologous Pathogens <i>in Vivo</i> ," <i>Virology</i> 239: 389-401 (1997).		
27.	Raabe et al., "In Vitro Antibody-Dependent Enhancement Assays are Insensitive Indicators of <i>in Vivo</i> Vaccine Enhancement of Equine Infectious Anemia Virus," <i>Virology</i> 259: 416-427 (1999).		
28.	Schlesinger, Jacob J. Michael W. Brandriss "17D Yellow Fever Virus Infection of P388D ₁ Cells Mediated by Monoclonal Antibodies: Properties of the Macrophage Fc Receptor." <i>Journal of General</i>		

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		Virology 64: 1255-1262 (1983).	
	29.	Steinman, "The Dendritic Cell System and its Role in Immunogenictiy." <i>Annual Review of Immunology</i> 9: 271-296 (1991).	
	30.	Vennema et al., "Early Death after Feline Infectious Peritonitis Virus Challenge due to Recombinant Vaccinia Virus Immunization," <i>Journal of Virology</i> 64(3): 1407-1409 (1990).	
	31.	Yao et al., "Antibody-dependent enhancement of hantavirus infection in macrophage cell lines," <i>Archives of Virology</i> 122: 107-118 (1992).	

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